

CLAIMS

1. A device for filtering and adding grain-refining materials to metal melts with a first filter (10) and a feed for a grain-refining material, whereby the first filter has a porous filter medium, characterised in that the feed for the grain-refining material is arranged in the direction of flow after the first filter (10) and a second filter (16) is arranged in the direction of flow after the feed for the grain-refining material.
2. A device according to claim 1, characterised in that the first filter (10) is constructed as a filter based on cake filtration.
3. A device according to claim 2, characterised in that the first filter (10) has a ceramic foam plate (11).
4. A device according to claim 3, characterised in that the ceramic foam plate (11) has a thickness of 5 to 30 mm, preferably 10 to 15 mm.
5. A device according to one of claims 2 to 4, characterised in that the first filter (10) has at least one element consisting of sintered material.
6. A device according to one of claims 2 to 5, characterised in that the first filter (10) has at least one element consisting of a material deposited by CVD.

7. A device according to one of claims 1 to 6, characterised in that the second filter (16) has a porous filter medium.
8. A device according to claim 7, characterised in that the second filter (16) has a deep-bed filter.
9. A device according to claim 8, characterised in that the deep-bed filter is constructed as a loose-fill bed filter.
10. A device according to one of claims 1 to 9, characterised in that the first filter (10) and/or the second filter (16) can be heated.
11. A method for filtering and adding grain-refining materials to metal melts where the melt is filtered with the aid of a first filter having a porous filter medium and a grain-refining material is added to the melt, especially for implementation using a device according to one of claims 1 to 10, characterised in that the grain-refining material is added to the melt after the first filter and that the melt is filtered after the feed for the grain-refining material in the direction of flow using a second filter.

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